MACCINES WITH OINT INHIBITORS: 2019 MUNICA CENT

National Breast Cancer Coalition

The
Breast
Cancer
Deadline



							Sponsorship/		
Trial Title	Phase/N	Population	Vaccine Component	Outcome/ Measure	Checkpoint Inhibitor	Complete	Pl	CT#	Comments
Neoantigen DNA Vaccine Alone vs. NeoAntigen DNA Vaccine Plus Durvalumab in Triple Negative BC Patients Following Standard of Care Therapy	1, Randomized n=24	Post NeoAdj. TNBC w/o PCR	Neoantigen DNA vaccine x6, at least 21 days apart *(given by the TDS-IM system)	Safety, immune response measured by luminex assay/ELISPOT/ multiparametric flow cytometry for up to 1 yr.	Randomization is + or - durvalumab (anti PD-1). Neoantigen- specific T cell response will be assessed prior in durvalumab arm if present durvalumab q4w	Sept-20	Washington University, Medimmune W. Gillanders, M.D.	NC103199040	If a neoantigen-specific T cell response is not present, these patients will be replaced but may continue to receive the neoantigen DNA vaccine on study. They will not be transferred to the vaccine-only arm
QUILT-3-057: NANT Neoadjuvant TNBC Vaccine	2 Randomized n= 376 randomization is to plus/minus vaccines and avelumab- control arm is chomeo only	Neo and post-neo TNBC	051, and ETBX-061 plus	PCR, EFS, OS, distant metastatic rate, LOcoregional recurrence, QOL (36 months)	Avelumab (anti- PD-L1)		Nantkwest, Inc. Chan Soon-Shiong Institute for Medicine	NCT03554109	Similar nonrandomized phase 1/2 study in advanced disease with n=79: NCT 03387085
Converting HR+ Breast Cancer Into an Individualized Vaccine (CBCV)	2 Randomized (4 arms) n= 100 Duration= 5 mos.: 4 mos. neoadjuvant tx per arm, surgery at 16 wks.	menopuasal BC receiving 4 months neoadjuvant	injections week 1 day 1-5.	Tolerability, clinical response rate, pathological response rate, local response rate (tumor specimans for T-cell infiltration at baseline and during treatment), systemic immune response (serial peripheral blood draws)	Arm 2 & 4 Pembrolizumab administered day 12 and q3w until progression or toxicity	Dec-21	Weill Medicall College of Cornell University (4 US trial sites) Silvia Formenti, M.D.	NCT03804944	All arms receive radiation therapy to the breast tumor will begin on week 2 (Day 8, 10, 12), at dose of 8 Gy x 3 fractions, every other day (arm 1 rads alone)
Evaluate Concurrent VRP- HER2 Vaccination and Pembrolizumab for Patients with BC	20	Advanced HER2+/ERPR- receiving trastuzumab plus pertuzumab, with measurable disease and current biopsy	replicon particles) containing self amplifying	Number of TILs and HER2 specific antibodies [24 months], adverse events (24 months), clinical response rate (36 months)	Pembrolizumab (anti PD-1) q3w x 5	Oct-20	Duke, Merck, Sharp & Dohme Corp. H. Kim Lyerly, M.D.	NCT03632941	Tx'd brain mets OK
QUILT-3-067: NANT TNBC Vaccine Molecularly Informed Integrated Immunotherapy in Subjects with TNBC Who have Progressed on or After Standard of Care Therapy		Advanced TNBC		PFS, adverse events, clinical response, clinical benefit, OS. Other: correlative analyses of the neoantigen-specific T-cell response. Potential biomarkers that will be assessed include				NCT03387085	See QUILT/NANT study above
Nab-Paclitaxel and Durvalumab with or without Neoantigen Vaccine in treating patients with metastatic TNBC	2 Randomized n=70	Advanced TNBC, no prior Tx for mets		baseline expression of PD-L1 on tumor infiltrating lymphocytes and tumor, TNBC subtype as determined by gene expression, immune signature as determined by gene expression, mutational landscape, presence and phenotype of neoantigen-sprecific T cells, and neoanbtigen-specific T cell response as measured by multiparameter flow cytometry	Durvalumab (anti PD-1)	July-19	NCI, Duke William Gillanders, M.D.	NCT03606967	Both arms receive nabpaclitaxel concurrently